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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 3	OCT 19	BEILSTEIN updated with new compounds
NEWS 4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS 5	NOV 19	WPIX enhanced with XML display format
NEWS 6	NOV 30	ICSD reloaded with enhancements
NEWS 7	DEC 04	LINPADOCLDB now available on STN
NEWS 8	DEC 14	BEILSTEIN pricing structure to change
NEWS 9	DEC 17	USPATOLD added to additional database clusters
NEWS 10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS 11	DEC 17	DGENE now includes more than 10 million sequences
NEWS 12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS 13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 14	DEC 17	CA/CAplus enhanced with new custom IPC display formats
NEWS 15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS 16	JAN 02	STN pricing information for 2008 now available
NEWS 17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS 18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS 19	JAN 28	MARPAT searching enhanced
NEWS 20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS 21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS 23	FEB 08	STN Express, Version 8.3, now available
NEWS 24	FEB 20	PCI now available as a replacement to DPCI
NEWS 25	FEB 25	IFIREF reloaded with enhancements
NEWS 26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS 27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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STRUCTURE FILE UPDATES: 20 MAR 2008 HIGHEST RN 1009361-91-4
DICTIONARY FILE UPDATES: 20 MAR 2008 HIGHEST RN 1009361-91-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e hexafluoroethane/cn

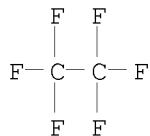
E1	1	HEXAFLUORODISILOXANE/CN
E2	1	HEXAFLUOROEPOXYPROPANE/CN
E3	1	--> HEXAFLUOROETHANE/CN
E4	1	HEXAFLUOROETHANE HOMOPOLYMER/CN
E5	1	HEXAFLUOROETHANE HYDRATE/CN
E6	1	HEXAFLUOROETHANE (+) /CN
E7	1	HEXAFLUOROETHANE-13C/CN
E8	1	HEXAFLUOROETHANE-ETHYLENE COPOLYMER/CN
E9	1	HEXAFLUOROFERRATE (III) /CN
E10	1	HEXAFLUOROFERRATE (3-) /CN
E11	1	HEXAFLUOROFERRATE (4-) /CN
E12	1	HEXAFLUOROFERRATE (5-) /CN

=> s e3
L1 1 HEXAFLUOROETHANE/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 76-16-4 REGISTRY
ED Entered STN: 16 Nov 1984

CN Ethane, 1,1,1,2,2,2-hexafluoro- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethane, hexafluoro- (8CI, 9CI)
 OTHER NAMES:
 CN Ethyl hexafluoride
 CN F 116
 CN F 116 (fluorocarbon)
 CN FC 116
 CN FC 1160
 CN Freon 116
 CN Hexafluoroethane
 CN HFC 116
 CN Perfluorocarbon 116
 CN Perfluoroethane
 CN PFC 116
 CN R 116
 DR 185009-34-1
 MF C2 F6
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,
 CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB,
 DETERM*, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS,
 PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, UOLIDAT, USPAT2, USPATFULL,
 USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3813 REFERENCES IN FILE CA (1907 TO DATE)
 26 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3816 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 155 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e dichlorotetrafluoroethane/cn

E1	1	DICHLOROTETRAETHYLENEDIRHODIUM(I)/CN
E2	1	DICHLOROTETRAFLUOROBENZENE/CN
E3	1	--> DICHLOROTETRAFLUOROETHANE/CN
E4	1	DICHLOROTETRAFLUOROTITANATE(2-)/CN
E5	1	DICHLOROTETRAFLUOROTITANATE(3-)/CN
E6	1	DICHLOROTETRAFLUOROTUNGSTEN/CN
E7	1	DICHLOROTETRAHYDRODIGALLIUM/CN
E8	1	DICHLOROTETRAHYDROXORHENATE(2-)/CN
E9	1	DICHLOROTETRAHYDROXYANTIMONATE(1-)/CN
E10	1	DICHLOROTETRAHYDROXYDIALUMINUM/CN
E11	1	DICHLOROTETRAIODOSTANNATE(2-)/CN
E12	1	DICHLOROTETRAKIS(B-PICOLINE)CADMIUM/CN

=> s e3

L2	1	DICHLOROTETRAFLUOROETHANE/CN
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=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1320-37-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethane, dichlorotetrafluoro- (CA INDEX NAME)
OTHER NAMES:
CN Dichlorotetrafluoroethane
CN Isceon 224
CN Tetrafluorodichloroethane
MF C2 C12 F4
CI IDS, COM
LC STN Files: ADISNEWS, ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMLIST, CIN, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

1/2 [H₃C—CH₃]

2 (D1—F)

D1—C1

488 REFERENCES IN FILE CA (1907 TO DATE)
489 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e chloropentafluoroethane/cn
E1 1 CHLOROPENTAFLUOROCYCLOTRIPHOSPHAZENE/CN
E2 1 CHLOROPENTAFLUOROCYCLOCOTRISILANE/CN
E3 0 --> CHLOROPENTAFLUOROETHANE/CN
E4 1 CHLOROPENTAFLUOROETHANE ANION RADICAL/CN
E5 1 CHLOROPENTAFLUOROISOPROPYLIDENIMINE/CN
E6 1 CHLOROPENTAFLUOROMANGANATE(2-)/CN
E7 1 CHLOROPENTAFLUOROPHOSPHATE(1-)/CN
E8 1 CHLOROPENTAFLUOROPLATINATE(2-)/CN
E9 1 CHLOROPENTAFLUOROSELENIUM/CN
E10 1 CHLOROPENTAFLUOROSILICATE(2-)/CN
E11 1 CHLOROPENTAFLUOROSULFUR/CN
E12 1 CHLOROPENTAFLUORTANTALATE(1-)/CN

=> e chloropentafluoroethane/cn
E1 1 CHLOROPENTAFLUOROCYCLOTRIPHOSPHAZENE/CN
E2 1 CHLOROPENTAFLUOROCYCLOCOTRISILANE/CN
E3 0 --> CHLOROPENTAFLUOROETHANE/CN
E4 1 CHLOROPENTAFLUOROETHANE ANION RADICAL/CN
E5 1 CHLOROPENTAFLUOROISOPROPYLIDENIMINE/CN
E6 1 CHLOROPENTAFLUOROMANGANATE(2-)/CN
E7 1 CHLOROPENTAFLUOROPHOSPHATE(1-)/CN
E8 1 CHLOROPENTAFLUOROPLATINATE(2-)/CN

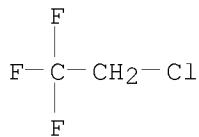
E9 1 CHLOROPENTAFLUOROSELENIUM/CN
 E10 1 CHLOROPENTAFLUOROSILICATE(2-)/CN
 E11 1 CHLOROPENTAFLUOROSULFUR/CN
 E12 1 CHLOROPENTAFLUOROTANTALATE(1-)/CN

=> e 1-chloro-2,2,2-trifluoroethane/cn
 E1 1 1-CHLORO-2,2,2-TRIFLUORO-1-PHENYLETHANE/CN
 E2 1 1-CHLORO-2,2,2-TRIFLUORO-1-PHENYLETHYL ISOCYANATE/CN
 E3 1 --> 1-CHLORO-2,2,2-TRIFLUOROETHANE/CN
 E4 1 1-CHLORO-2,2,2-TRIFLUOROETHOXY/CN
 E5 1 1-CHLORO-2,2,2-TRIFLUOROETHYL DIFLUOROMETHYL ETHER/CN
 E6 1 1-CHLORO-2,2,2-TRIFLUOROETHYL ETHYL ETHER/CN
 E7 1 1-CHLORO-2,2,2-TRIFLUOROETHYL ISOPROPYL ETHER/CN
 E8 1 1-CHLORO-2,2,2-TRIFLUOROETHYL METHYL ETHER/CN
 E9 1 1-CHLORO-2,2,2-TRIFLUOROETHYL OCTYL ETHER/CN
 E10 1 1-CHLORO-2,2,2-TRIFLUOROETHYL PHENETHYL ETHER/CN
 E11 1 1-CHLORO-2,2,2-TRIFLUOROETHYL PHENYL SULFIDE/CN
 E12 1 1-CHLORO-2,2,2-TRIFLUOROETHYLPEROXY/CN

=> s e3
 L3 1 "1-CHLORO-2,2,2-TRIFLUOROETHANE"/CN

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 75-88-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Ethane, 2-chloro-1,1,1-trifluoro- (CA INDEX NAME)
 OTHER NAMES:
 CN (Chloromethyl)trifluoromethane
 CN 1,1,1-Trifluoro-2-chloroethane
 CN 1,1,1-Trifluorochloroethane
 CN 1,1,1-Trifluoroethyl chloride
 CN 1-Chloro-2,2,2-trifluoroethane
 CN 2,2,2-Trifluoro-1-chloroethane
 CN 2,2,2-Trifluorochloroethane
 CN 2,2,2-Trifluoroethyl chloride
 CN 2-Chloro-1,1,1-trifluoroethane
 CN F 133a
 CN FC 133a
 CN Forane 133a
 CN Freon 133a
 CN Genetron 133a
 CN HCFC 133a
 CN R 133a
 MF C2 H2 Cl F3
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM,
 CSNB, DETHERM*, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
 MSDS-OHS, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

754 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 754 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 1,1-dichloro-2,2,2-trifluoroethane/cn

E1 1 1,1-DICHLORO-1-UNDECENE/CN
 E2 1 1,1-DICHLORO-2,2,2-TRIFLUORO-1-IODOETHANE/CN
 E3 1 --> 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE/CN
 E4 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,2-TRIFLUOROETHANOL/CN
 E5 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,3,3,3-PENTAFLUORO-1-PROPANOL/CN
 E6 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,3,3-TETRAFLUORO-1-PROPANOL/CN
 E7 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH METHANOL/CN
 E8 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-D/CN
 E9 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-ETHANOL MIXT./CN
 E10 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-ISOPROPANOL MIXT./CN
 E11 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHYL/CN
 E12 1 1,1-DICHLORO-2,2,2-TRIFLUOROETHYL ISOCYANATE/CN

=> s e3

L4 1 "1,1-DICHLORO-2,2,2-TRIFLUOROETHANE"/CN

=> d 14

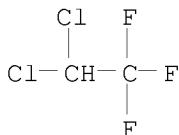
L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 306-83-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Ethane, 2,2-dichloro-1,1,1-trifluoro- (CA INDEX NAME)
 OTHER NAMES:
 CN 1,1,1-Trifluoro-2,2-dichloroethane
 CN 1,1,1-Trifluorodichloroethane
 CN 1,1-Dichloro-2,2,2-trifluoroethane
 CN 2,2-Dichloro-1,1,1-trifluoroethane
 CN CFC 123
 CN Dichloro(trifluoromethyl)methane
 CN F 123
 CN F 123 (halocarbon)
 CN FC 123
 CN Freon 123
 CN Fron 123
 CN HCFC 123
 CN HFA 123
 CN Khladon 123
 CN R 123
 CN Solkane 123
 MF C2 H Cl2 F3
 CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*, SCISEARCH, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1776 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1778 REFERENCES IN FILE CAPLUS (1907 TO DATE)
21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

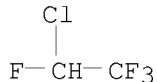
=> e 1-chloro-1,2,2,2-tetrafluoroethane/cn
E1 1 1-CHLORO-1,2,2,2-TETRAFLUORO-1-IODOETHANE/CN
E2 1 1-CHLORO-1,2,2,2-TETRAFLUORO-1-NITROETHANE/CN
E3 1 --> 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE/CN
E4 1 1-CHLORO-1,2,2,2-TETRAMETHYLDISILANE/CN
E5 1 1-CHLORO-1,2,2,3,3,3-HEXAFLUOROPROPANE/CN
E6 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROBUTANE/CN
E7 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROCYCLOBUTANE/CN
E8 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROPROPANE/CN
E9 1 1-CHLORO-1,2,2,3,4,4-HEXAFLUOROBUT-3-ENE-1-SULFONYL FLUORIDE/CN
E10 1 1-CHLORO-1,2,2,3-TETRAFLUORO-3-METHOXYCYCLOPROPANE/CN
E11 1 1-CHLORO-1,2,2,3-TETRAFLUOROBUTANE/CN
E12 1 1-CHLORO-1,2,2,3-TETRAFLUOROPROPANE/CN

=> s e3
L5 1 "1-CHLORO-1,2,2,2-TETRAFLUOROETHANE"/CN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 2837-89-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethane, 2-chloro-1,1,1,2-tetrafluoro- (CA INDEX NAME)
OTHER NAMES:
CN 1,1,1,2-Tetrafluoro-2-chloroethane
CN 1,1,1,2-Tetrafluorochloroethane
CN 1-Chloro-1,2,2,2-tetrafluoroethane
CN 2-Chloro-1,1,1,2-tetrafluoroethane
CN CFC 124
CN F 124
CN FC 124
CN Freon 124
CN Fron 124
CN HCFC 124

CN Khladon 124
 CN R 124
 MF C2 H Cl F4
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
 CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DETHERM*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*,
 TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

874 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 875 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 10:49:57 ON 21 MAR 2008)

FILE 'REGISTRY' ENTERED AT 10:50:15 ON 21 MAR 2008
 E HEXAFLUOROETHANE/CN
 L1 1 S E3
 E DICHLOROTETRAFLUOROETHANE/CN
 L2 1 S E3
 E CHLOROPENTAFLUOROETHANE/CN
 E CHLOROPENTAFLUOROETHANE/CN
 E 1-CHLORO-2,2,2-TRIFLUOROETHANE/CN
 L3 1 S E3
 E 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE/CN
 L4 1 S E3
 E 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE/CN
 L5 1 S E3

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
42.19	42.40

FILE 'CAPLUS' ENTERED AT 10:58:24 ON 21 MAR 2008
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FILE COVERS 1907 - 21 Mar 2008 VOL 148 ISS 13
FILE LAST UPDATED: 20 Mar 2008 (20080320/ED)

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<http://www.cas.org/infopolicy.html>

=> s l1/prep
3816 L1
4545971 PREP/RL
L6 449 L1/PREP
(L1 (L) PREP/RL)

=> s l2 or l3 or l4 or l5
489 L2
754 L3
1778 L4
875 L5
L7 3204 L2 OR L3 OR L4 OR L5

=> s l6 and l7
L8 22 L6 AND L7

=> s l8 and distill?
133145 DISTILL?
168682 DISTD
1 DISTDS
168682 DISTD
(DISTD OR DISTDS)
27252 DISTG
180798 DISTN
1822 DISTNS
181550 DISTN
(DISTN OR DISTNS)
397186 DISTILL?
(DISTILL? OR DISTD OR DISTG OR DISTN)
L9 2 L8 AND DISTILL?

=> s l8 and hydrogen gas and fluorine
1048717 HYDROGEN
6166 HYDROGENS
1052144 HYDROGEN
(HYDROGEN OR HYDROGENS)
1654799 GAS
545947 GASES
1845948 GAS
(GAS OR GASES)
9189 HYDROGEN GAS
(HYDROGEN(W) GAS)
112941 FLUORINE
572 FLUORINES
113256 FLUORINE
(FLUORINE OR FLUORINES)
L10 0 L8 AND HYDROGEN GAS AND FLUORINE

=> s l8 and hydrogen fluoride and fluorine
1048717 HYDROGEN

6166 HYDROGENS
 1052144 HYDROGEN
 (HYDROGEN OR HYDROGENS)
 271456 FLUORIDE
 44345 FLUORIDES
 287226 FLUORIDE
 (FLUORIDE OR FLUORIDES)
 25777 HYDROGEN FLUORIDE
 (HYDROGEN(W)FLUORIDE)
 112941 FLUORINE
 572 FLUORINES
 113256 FLUORINE
 (FLUORINE OR FLUORINES)
 L11 2 L8 AND HYDROGEN FLUORIDE AND FLUORINE

=> s 19 or l11
 L12 3 L9 OR L11

=> d l12 ibib ab tot

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:182602 CAPLUS
 DOCUMENT NUMBER: 142:281958
 TITLE: Process for producing hexafluoroethane
 INVENTOR(S): Ohno, Hiromoto; Arai, Tatsuharu
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019141	A2	20050303	WO 2004-JP11709	20040809
WO 2005019141	A3	20050512		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005097245	A	20050414	JP 2004-121604	20040416
CN 1839108	A	20060927	CN 2004-80023821	20040809
KR 806260	B1	20080222	KR 2006-702604	20060207
US 2006252970	A1	20061109	US 2006-567757	20060210
PRIORITY APPLN. INFO.:			JP 2003-208236	A 20030821
			US 2003-498284P	P 20030828
			JP 2004-121604	A 20040416
			WO 2004-JP11709	W 20040809

OTHER SOURCE(S): CASREACT 142:281958

AB A process for producing hexafluoroethane, comprising a step of
 distilling a crude hexafluoroethane containing chlorine compds. each
 having two carbon atoms to distill out hexafluoroethane as a top
 flow from the top of a distillation column and sep. a hexafluoroethane
 mixture containing the chlorine compds. as a bottom flow from the bottom, and a

step of contacting the bottom flow with hydrogen fluoride in the gas phase at 300-500° in the presence of a fluorination catalyst to fluorinate the chlorine compds. A process flow diagram is presented.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:82889 CAPLUS
 DOCUMENT NUMBER: 138:197950
 TITLE: Determination of perfluoroisobutylene by gas chromatography
 INVENTOR(S): Dedov, A. S.; Zakharov, V. Yu.; Abramov, O. B.; Vyrazheikin, E. S.; Khakhulina, L. A.; Mamaeva, N. V.; Terent'eva, I. A.
 PATENT ASSIGNEE(S): Otkrytoe Aktsionernoe Obshchestvo "Kirovo-Chepetskii Khimicheskii Kombinat im. B. P. Konstantinova", Russia
 SOURCE: Russ., No pp. given
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2189037	C1	20020910	RU 2001-112534	20010507
PRIORITY APPLN. INFO.:			RU 2001-112534	20010507

AB Perfluoroisobutylene can be determined by gas chromatog. whereby the mixture being analyzed is separated in a flow of a carrier gas in a chromatog. column using silochrome modified by dibutylphthalate (2-3 weight%) as a sorbent. The surface of silochrome contains 2-3 μ mol/m² of OH groups due to treatment of the initial sorbent with distilled boiling water for 60 h, followed by drying at 120°C and calcination at 300-400°C for 1 h. A detector of constant recombination rate is employed to record the perfluoroisobutylene. A flame ionization detector analyzes the gases generated by the combustion of waste from fluoroorg. industry. A number of accompanying fluoroorg. compds. are determined simultaneously with perfluoroisobutylene.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:935549 CAPLUS
 DOCUMENT NUMBER: 136:39118
 TITLE: Fluorination process for producing hexafluoroethane from pentafluoroethane and hydrogen fluoride and the product's use as an etching gas
 INVENTOR(S): Ohno, Hiromoto; Kaga, Kazunari; Ohi, Toshio
 PATENT ASSIGNEE(S): Showa Denko K.K., Japan
 SOURCE: PCT Int. Appl., 40 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001098240	A2	20011227	WO 2001-JP5256	20010620
WO 2001098240	A3	20020606		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,

RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
 VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 JP 2002003415 A 20020109 JP 2000-185654 20000621
 AU 2001074561 A5 20020102 AU 2001-74561 20010620
 CN 1561319 A 20050105 CN 2001-801719 20010620
 TW 593219 B 20040621 TW 2001-90115125 20010621
 US 6489523 B1 20021203 US 2002-30823 20020114
 US 2002183568 A1 20021205
 PRIORITY APPLN. INFO.: JP 2000-185654 A 20000621
 US 2000-230806P P 20000907
 WO 2001-JP5256 W 20010620

AB An industrial-scale process for producing CF₃CF₃ with good profitability using CF₃CHF₂ which contains a compound having a chlorine atom within the mol., is described along with the use of the hexafluoroethane as an etching gas. This process comprises: (1) reacting a gas mixture containing pentafluoroethane and a compound having chlorine atom (e.g., chloromethane) with hydrogen fluoride in the gaseous phase in the presence of a fluorination catalyst to fluorinate the compound having the chlorine atom; and (2) reacting the gas mixture containing pentafluoroethane and the fluorinated compound obtained in step (1) with a fluorine gas in the gaseous phase in the presence of a diluting gas (e.g., HF).

and

=> s 18 and chromium oxide

392919 CHROMIUM
 75 CHROMIUMS
 392923 CHROMIUM
 (CHROMIUM OR CHROMIUMS)
 1848404 OXIDE
 357183 OXIDES
 1949115 OXIDE
 (OXIDE OR OXIDES)
 36987 CHROMIUM OXIDE
 (CHROMIUM(W) OXIDE)

L13 5 L8 AND CHROMIUM OXIDE

=> d 113 not 112

L12 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> s 113 not 112

L14 3 L13 NOT L12

=> d 114 ibib ab tot

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:62373 CAPLUS

DOCUMENT NUMBER: 134:102544

TITLE: Process and catalysts for the removal of chlorine from chlorofluorocarbons by their reaction with hydrofluorocarbons

INVENTOR(S): Cuzzato, Paolo; Peron, Sergio

PATENT ASSIGNEE(S): Ausimont S.p.A., Italy; Solvay Solexis S.p.A.

SOURCE: Eur. Pat. Appl., 4 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1070696	A2	20010124	EP 2000-115288	20000714
EP 1070696	A3	20010328		
EP 1070696	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
IT 99MI1595	A1	20010122	IT 1999-MI1595	19990720
US 6479717	B1	20021112	US 2000-618132	20000717
CA 2314351	A1	20010120	CA 2000-2314351	20000719
JP 2001048813	A	20010220	JP 2000-219333	20000719
PRIORITY APPLN. INFO.:			IT 1999-MI1595	A 19990720

OTHER SOURCE(S): MARPAT 134:102544

AB A gaseous process for eliminating chlorine atoms from chlorofluorocarbons $C_nF_xCl_y$ ($n = 1-3$; and $x & y = 2n + 2$) comprises reacting the chlorofluorocarbon with a hydrofluorocarbon $C_n'F_x'Cl_y'$ (n' , x' , y' are as defined above or different) in the presence of a fluorination catalyst (e.g., trivalent chromium oxide) in the solid phase at 200-400°.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:215170 CAPLUS
 DOCUMENT NUMBER: 98:215170
 ORIGINAL REFERENCE NO.: 98:32705a,32708a
 TITLE: Fluorination of halo hydrocarbons
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57197232	A	19821203	JP 1981-79377	19810527
JP 60006927	B	19850221		
PRIORITY APPLN. INFO.:			JP 1981-79377	19810527

AB Fluorohaloalkanes were prepared by fluorination of haloalkanes with HF in the presence of Al, Mg, and Cr oxides. Thus, 2.5 l aqueous solution of $Al(NO_3)_3 \cdot 9H_2O$ 1100, $Cr(NO_3)_3 \cdot 9H_2O$ 125, and $Mg(NO_3)_2 \cdot 6H_2O$ 40 g was treated with 2000 g 28% aqueous NH_4OH , 4 l H_2O and the precipitated oxides filtered, washed, dried, calcined at 450° for 5 h, and treated with HF/N at 200-400° to give an activated catalyst, which (300 mL) was contacted with 1 mol/h HF and 0.5 mol/h $C_2Cl_3F_3$ to give a product mixture containing C_2F_6 0.7, $C_2Cl_5F_5$ 71.0, $C_2Cl_2F_4$ 17.6, and $C_2Cl_3F_3$ 10.4%.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:581702 CAPLUS
 DOCUMENT NUMBER: 97:181702
 ORIGINAL REFERENCE NO.: 97:30385a,30388a
 TITLE: Catalysts for the fluorination in the gaseous phase of chlorinated aliphatic derivatives based on chromium oxide microspheres
 INVENTOR(S): Foulletier, Louis
 PATENT ASSIGNEE(S): Produits Chimiques Ugine Kuhlmann, Fr.
 SOURCE: Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 55652	A1	19820707	EP 1981-401980	19811211
EP 55652	B1	19850220		
R: BE, DE, FR, GB, IT, NL				
FR 2501062	A1	19820910	FR 1980-27659	19801229
FR 2501062	B1	19841012		
CA 1154425	A1	19830927	CA 1981-390772	19811124
US 4439534	A	19840327	US 1981-324437	19811124
JP 57119836	A	19820726	JP 1981-193767	19811203
JP 03014498	B	19910226		
DD 208084	A5	19840328	DD 1981-235627	19811210
PL 129986	B1	19840630	PL 1981-234425	19811223
AU 8179037	A	19820708	AU 1981-79037	19811224
AU 541788	B2	19850117		
BR 8108429	A	19821013	BR 1981-8429	19811228
ES 508385	A1	19830316	ES 1981-508385	19811228
US 4748285	A	19880531	US 1986-935144	19861125
JP 03072946	A	19910328	JP 1990-190344	19900718
JP 05009135	B	19930204		
PRIORITY APPLN. INFO.:			FR 1980-27659	A 19801229
			US 1981-324437	A3 19811124
			US 1982-429080	A1 19820930

OTHER SOURCE(S): MARPAT 97:181702

AB The fluorination of aliphatic compds. was catalyzed by Cr2O3.

Hexachloroethane (formed in situ from tetrachloroethylene and Cl) reacted with HF over Cr2O3 at 340° to give tetrachlorodifluoroethane, trichlorotrifluoroethane, dichlorotetrafluoroethane, CF3CF2Cl1, and ClCF2CF2Cl1.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	45.38	87.78
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.80	-4.80

STN INTERNATIONAL LOGOFF AT 11:06:34 ON 21 MAR 2008